

Formula (1)

18. (New) The resin composition according to Claim 17, which further comprises
(c) more than 0 part by weight and not more than 250 parts by weight of at least one member selected from the group consisting of an organic reinforcing material, an inorganic reinforcing material and a filler; based on 100 parts by weight of a total amount of (a) and (b).

19. (New) The resin composition according to Claim 17, wherein a melt index of said component (b) is at least 0.1 as measured under measuring conditions of 330°C, a load of 5 kg, an orifice diameter of 2.095 mm and a length of 8 mm.

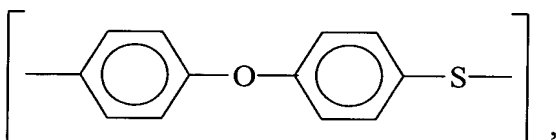
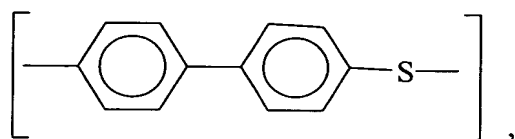
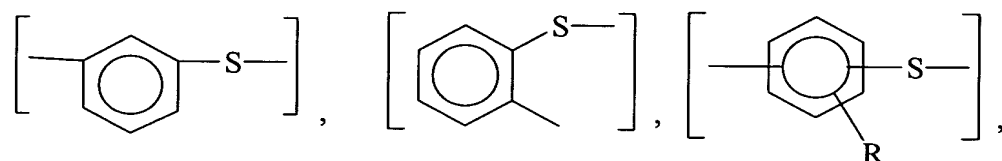
20. (New) The resin composition according to Claim 17, wherein a melt index of said polyphenylene sulfide is from 0.5 to 500 as measured under measuring conditions of 330°C, a load of 5 kg, an orifice diameter of 2.095 mm and a length of 8 mm.

21. (New) A molded product obtained by injection molding of the resin composition according to Claim 17.

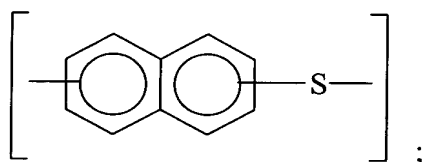
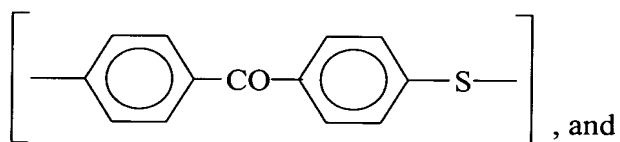
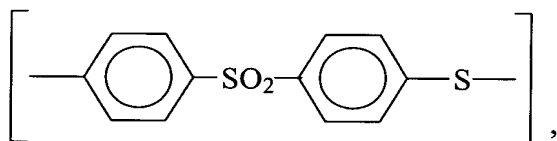
22. (New) The resin composition according to Claim 17, wherein a melt index of said polyphenylene sulfide is from 1 to 300 as measured under measuring conditions of 330°C, a load of 5 kg, an orifice diameter of 2.095 mm and a length of 8 mm.

23. (New) The resin composition according to Claim 17, further comprising a lubricant, a stabilizer, a pigment or a mixture thereof.

24. (New) The resin composition according to Claim 17, wherein said polyphenylene sulfide further comprises a copolymer unit selected from the group consisting of



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(cont)



wherein R represents an alkyl group, a nitro group, a phenyl group, an alkoxy group, a carboxyl group or a metal carboxylate group.

25. (New) The resin composition according to Claim 24, wherein said copolymer unit

is present in an amount of less than 30 mol%.

26. (New) The resin composition according to Claim 24, wherein said copolymer unit is present in an amount of less than 10 mol%.

27. (New) The resin composition according to Claim 17, wherein said polyphenylene sulfide contains at least 90 mol% of the repeating unit of formula (1).

28. (New) The resin composition according to Claim 18, wherein (c) is selected from the group consisting of a thermosetting resin powder, ferrite, mica, silica, talc, alumina, kaolin, calcium sulfate, calcium carbonate, graphite, titanium oxide, zinc oxide, carbon black, glass fiber, carbon fiber, whisker of potassium titanate, whisker of aluminum borate and polyamide fiber.

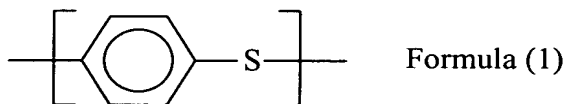
29. (New) A resin composition, comprising:

(a) from 70 to 95 wt% of a polyphenylene sulfide; and

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(b) from 5 to 30 wt% of a tetrafluoroethylene/perfluoro(alkylvinyl ether) copolymer or a tetrafluoroethylene/hexafluoropropylene copolymer having a solidification temperature (T_{mc}) of at least 237°C when cooled at a cooling rate of 10°C/min after melting in a nitrogen atmosphere at 330°C;

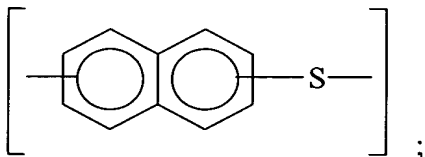
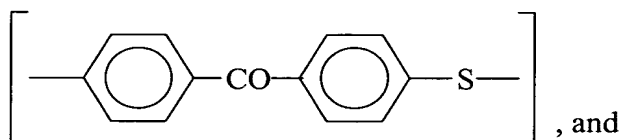
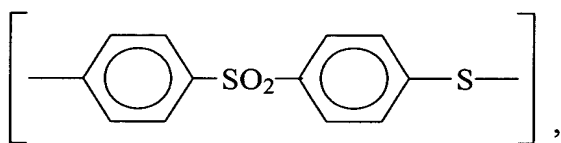
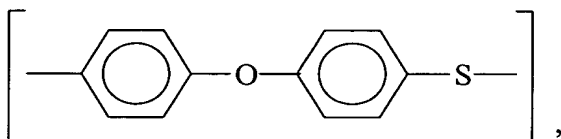
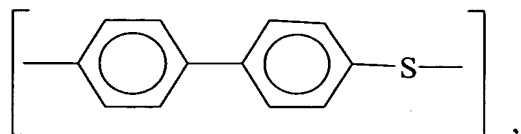
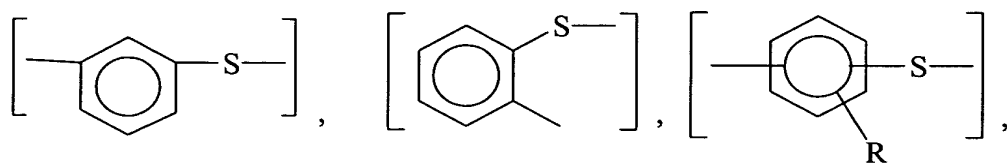
wherein said polyphenylene sulfide is a copolymer comprising

a repeating unit represented by formula (1):



; and

a copolymer unit selected from the group consisting of



wherein R represents an alkyl group, a nitro group, a phenyl group, an alkoxy group, a carboxyl group or a metal carboxylate group.

30. (New) The resin composition according to Claim 29, which further comprises

(c) more than 0 part by weight and not more than 250 parts by weight of at least one member selected from the group consisting of an organic reinforcing material, an inorganic

reinforcing material and a filler; based on 100 parts by weight of a total amount of (a) and (b).

31. (New) The resin composition according to Claim 29, wherein a melt index of said component (b) is at least 0.1 as measured under measuring conditions of 330°C, a load of 5 kg, an orifice diameter of 2.095 mm and a length of 8 mm.

32. (New) The resin composition according to Claim 29, wherein a melt index of said polyphenylene sulfide is from 0.5 to 500 as measured under measuring conditions of 330°C, a load of 5 kg, an orifice diameter of 2.095 mm and a length of 8 mm.

33. (New) A molded product obtained by injection molding of the resin composition according to Claim 29.

34. (New) The resin composition according to Claim 29, wherein a melt index of said polyphenylene sulfide is from 1 to 300 as measured under measuring conditions of 330°C, a load of 5 kg, an orifice diameter of 2.095 mm and a length of 8 mm.

35. (New) The resin composition according to Claim 29, further comprising a lubricant, a stabilizer, a pigment or a mixture thereof.

36. (New) The resin composition according to Claim 29, wherein said polyphenylene sulfide is a random copolymer or a block copolymer containing at least 70 mol% of the repeating unit of formula (1).

37. (New) The resin composition according to Claim 29, wherein said polyphenylene sulfide contains at least 90 mol% of the repeating unit of formula (1).

38. (New) The resin composition according to Claim 29, wherein said copolymer unit is present in an amount of less than 30 mol%.

39. (New) The resin composition according to Claim 29, wherein said copolymer unit is present in an amount of less than 10 mol%.

40. (New) The resin composition according to Claim 30, wherein (c) is selected from

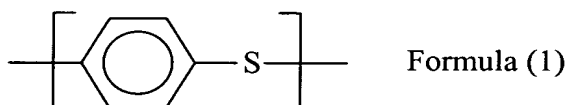
the group consisting of a thermosetting resin powder, ferrite, mica, silica, talc, alumina, kaolin, calcium sulfate, calcium carbonate, graphite, titanium oxide, zinc oxide, carbon black, glass fiber, carbon fiber, whisker of potassium titanate, whisker of aluminum borate and polyamide fiber.

41. (New) A resin composition, comprising:

(a) from 70 to 95 wt% of a polyphenylene sulfide; and

(b) from 5 to 30 wt% of a tetrafluoroethylene/perfluoro(alkylvinyl ether) copolymer or a tetrafluoroethylene/hexafluoropropylene copolymer having a solidification temperature (T_{mc}) of at least 237°C when cooled at a cooling rate of 10°C/min after melting in a nitrogen atmosphere at 330°C;

wherein said polyphenylene sulfide is a copolymer comprising a repeating unit represented by formula (1):



; and

less than 30 mol%, excluding 0 mol%, of a copolymer unit.

42. (New) The resin composition according to Claim 41, which further comprises

(c) more than 0 part by weight and not more than 250 parts by weight of at least one member selected from the group consisting of an organic reinforcing material, an inorganic reinforcing material and a filler; based on 100 parts by weight of a total amount of (a) and (b).

43. (New) The resin composition according to Claim 41, wherein a melt index of said component (b) is at least 0.1 as measured under measuring conditions of 330°C, a load of 5 kg, an orifice diameter of 2.095 mm and a length of 8 mm.

44. (New) The resin composition according to Claim 41, wherein a melt index of

said polyphenylene sulfide is from 0.5 to 500 as measured under measuring conditions of 330°C, a load of 5 kg, an orifice diameter of 2.095 mm and a length of 8 mm.

45. (New) A molded product obtained by injection molding of the resin composition according to Claim 41.

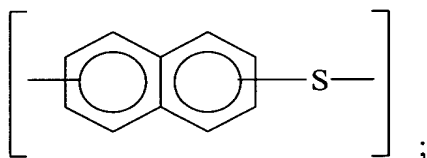
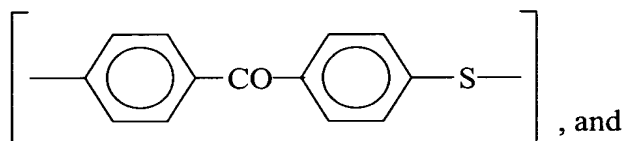
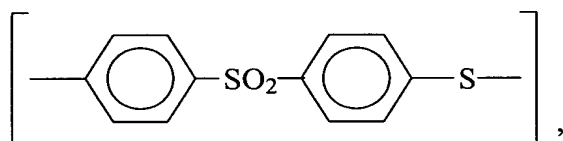
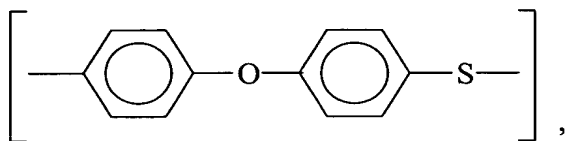
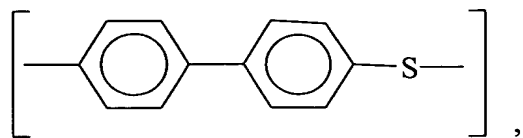
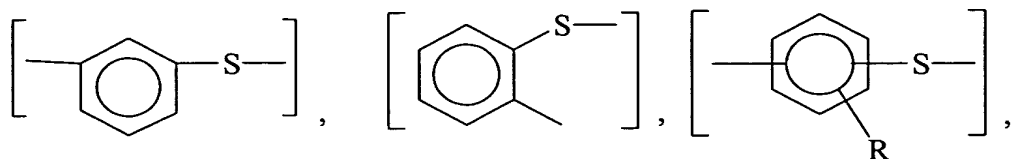
46. (New) The resin composition according to Claim 41, wherein a melt index of said polyphenylene sulfide is from 1 to 300 as measured under measuring conditions of 330°C, a load of 5 kg, an orifice diameter of 2.095 mm and a length of 8 mm.

47. (New) The resin composition according to Claim 41, further comprising a lubricant, a stabilizer, a pigment or a mixture thereof.

48. (New) The resin composition according to Claim 41, wherein said polyphenylene sulfide is a random copolymer or a block copolymer containing at least 70 mol% of the repeating unit of formula (1).

49. (New) The resin composition according to Claim 41, wherein said polyphenylene sulfide contains at least 90 mol% of the repeating unit of formula (1).

50. (New) The resin composition according to Claim 41, wherein said copolymer unit selected from the group consisting of



wherein R represents an alkyl group, a nitro group, a phenyl group, an alkoxy group, a carboxyl group or a metal carboxylate group.

51. (New) The resin composition according to Claim 41, wherein said copolymer unit is present in an amount of less than 10 mol%, excluding 0 mol%.

52. (New) The resin composition according to Claim 42, wherein (c) is selected from

the group consisting of a thermosetting resin powder, ferrite, mica, silica, talc, alumina, kaolin, calcium sulfate, calcium carbonate, graphite, titanium oxide, zinc oxide, carbon black, glass fiber, carbon fiber, whisker of potassium titanate, whisker of aluminum borate and polyamide fiber.

53. (New) A resin composition, comprising:

(a) from 70 to 95 wt% of a polyphenylene sulfide;

(b) from 5 to 30 wt% of a tetrafluoroethylene/perfluoro(alkylvinyl ether) copolymer or a tetrafluoroethylene/hexafluoropropylene copolymer having a solidification temperature (T_{mc}) of at least 237°C when cooled at a cooling rate of 10°C/min after melting in a nitrogen atmosphere at 330°C; and

(c) more than 0 part by weight and not more than 250 parts by weight of at least one member selected from the group consisting of a thermosetting resin powder, ferrite, mica, silica, talc, alumina, kaolin, calcium sulfate, calcium carbonate, graphite, titanium oxide, zinc oxide, carbon black, glass fiber, whisker of potassium titanate, whisker of aluminum borate and polyamide fiber; based on 100 parts by weight of a total amount of (a) and (b).

54. (New) The resin composition according to Claim 53, wherein a melt index of said component (b) is at least 0.1 as measured under measuring conditions of 330°C, a load of 5 kg, an orifice diameter of 2.095 mm and a length of 8 mm.

55. (New) The resin composition according to Claim 53, wherein a melt index of said polyphenylene sulfide is from 0.5 to 500 as measured under measuring conditions of 330°C, a load of 5 kg, an orifice diameter of 2.095 mm and a length of 8 mm.

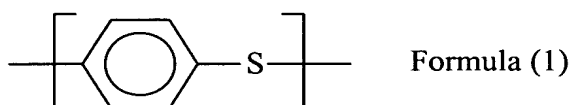
56. (New) A molded product obtained by injection molding of the resin composition according to Claim 53.

57. (New) The resin composition according to Claim 53, wherein a melt index of said

polyphenylene sulfide is from 1 to 300 as measured under measuring conditions of 330°C, a load of 5 kg, an orifice diameter of 2.095 mm and a length of 8 mm.

58. (New) The resin composition according to Claim 53, further comprising a lubricant, a stabilizer, a pigment or a mixture thereof.

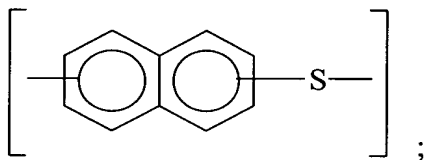
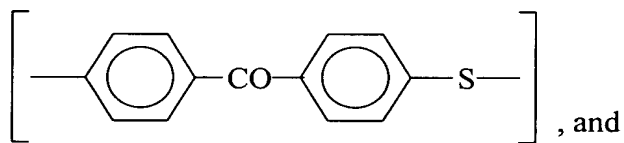
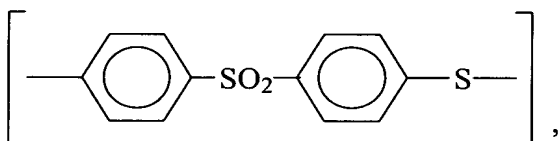
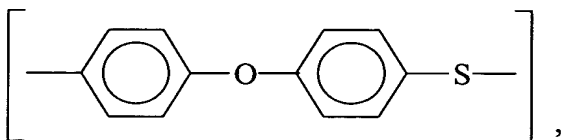
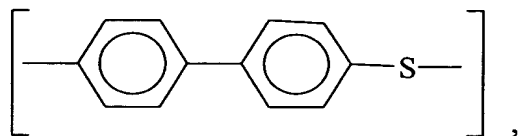
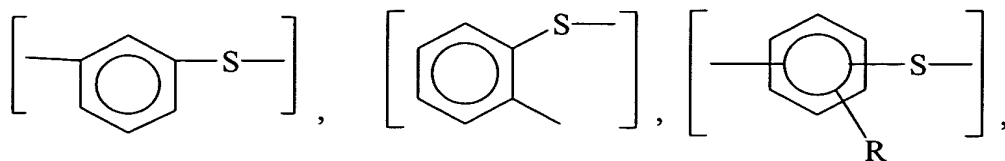
59. (New) The resin composition according to Claim 53, wherein said polyphenylene sulfide is a polymer comprising a repeating unit represented by formula (1):



60. (New) The resin composition according to Claim 59, wherein said polyphenylene sulfide is a random copolymer or a block copolymer containing at least 70 mol% of the repeating unit of formula (1).

61. (New) The resin composition according to Claim 59, wherein said polyphenylene sulfide contains at least 90 mol% of the repeating unit of formula (1).

62. (New) The resin composition according to Claim 59, wherein said polyphenylene sulfide further comprises a copolymer unit selected from the group consisting of



wherein R represents an alkyl group, a nitro group, a phenyl group, an alkoxy group, a carboxyl group or a metal carboxylate group.

63. (New) The resin composition according to Claim 62, wherein said copolymer unit is present in an amount of less than 30 mol%.

64. (New) The resin composition according to Claim 62, wherein said copolymer unit

is present in an amount of less than 10 mol%.

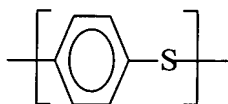
65. (New) A resin composition, comprising:

(a) from 70 to 95 wt% of a polyphenylene sulfide;

(b¹) from 5 to 30 wt% of a tetrafluoroethylene/perfluoro(alkylvinyl ether) copolymer or a tetrafluoroethylene/hexafluoropropylene copolymer; and

(c) from 10 to 250 parts by weight of at least one member selected from the group consisting of an organic reinforcing material, an inorganic reinforcing material and a filler; based on 100 parts by weight of a total amount of (a) and (b¹);

wherein said polyphenylene sulfide is a random copolymer or a block copolymer comprising at least 70 mol% of a repeating unit represented by formula (1):



Formula (1)

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CNY 66. (New) The resin composition according to Claim 65, wherein a melt index of said component (b) is at least 0.1 as measured under measuring conditions of 330°C, a load of 5 kg, an orifice diameter of 2.095 mm and a length of 8 mm.

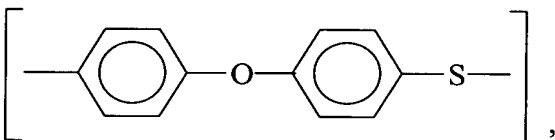
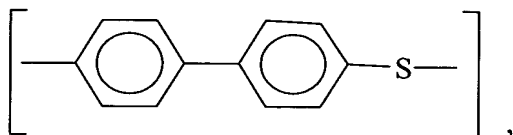
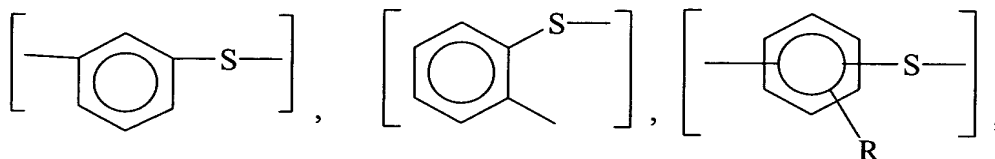
67. (New) The resin composition according to Claim 65, wherein a melt index of said polyphenylene sulfide is from 0.5 to 500 as measured under measuring conditions of 330°C, a load of 5 kg, an orifice diameter of 2.095 mm and a length of 8 mm.

68. (New) A molded product obtained by injection molding of the resin composition according to Claim 65.

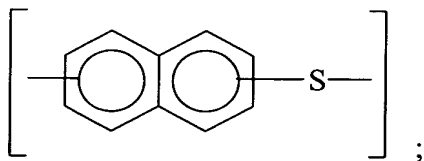
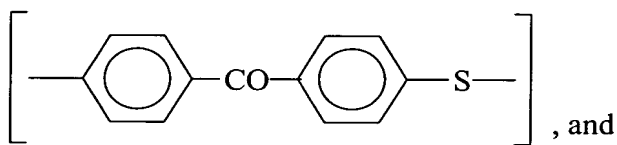
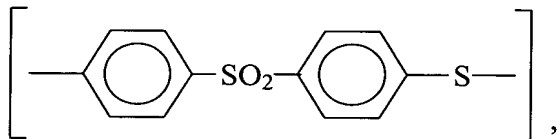
69. (New) The resin composition according to Claim 65, wherein a melt index of said polyphenylene sulfide is from 1 to 300 as measured under measuring conditions of 330°C, a load of 5 kg, an orifice diameter of 2.095 mm and a length of 8 mm.

70. (New) The resin composition according to Claim 65, further comprising a lubricant, a stabilizer, a pigment or a mixture thereof.

71. (New) The resin composition according to Claim 65, wherein said polyphenylene sulfide further comprises a copolymer unit selected from the group consisting of



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wherein R represents an alkyl group, a nitro group, a phenyl group, an alkoxy group, a carboxyl group or a metal carboxylate group.

72. (New) The resin composition according to Claim 71, wherein said copolymer unit is present in an amount of less than 30 mol%.

73. (New) The resin composition according to Claim 71, wherein said copolymer unit is present in an amount of less than 10 mol%.


74. (New) The resin composition according to Claim 65, wherein said polyphenylene sulfide contains at least 90 mol% of the repeating unit of formula (1).

75. (New) The resin composition according to Claim 65, wherein (c) is selected from the group consisting of a thermosetting resin powder, ferrite, mica, silica, talc, alumina, kaolin, calcium sulfate, calcium carbonate, graphite, titanium oxide, zinc oxide, carbon black, glass fiber, carbon fiber, whisker of potassium titanate, whisker of aluminum borate and polyamide fiber.

76. (New) A resin composition, comprising:

(a) from 70 to 95 wt% of a polyphenylene sulfide;

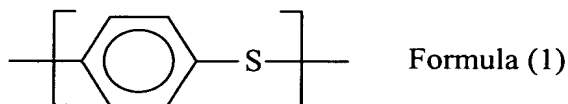
(b¹) from 5 to 30 wt% of a tetrafluoroethylene/perfluoro(alkylvinyl ether) copolymer

 or a tetrafluoroethylene/hexafluoropropylene copolymer; and

(c) from 10 to 250 parts by weight of at least one member selected from the group consisting of an organic reinforcing material, an inorganic reinforcing material and a filler; based on 100 parts by weight of a total amount of (a) and (b¹);

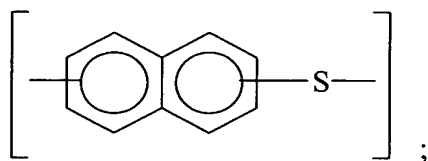
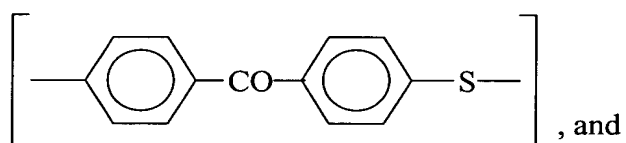
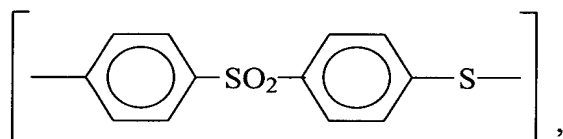
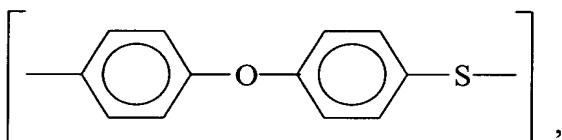
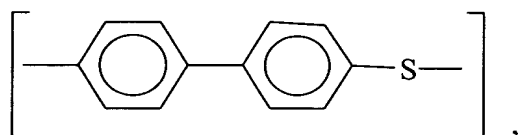
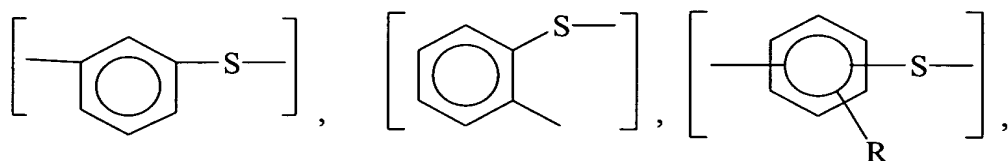
wherein said polyphenylene sulfide is a copolymer comprising

a repeating unit represented by formula (1):



; and

a copolymer unit selected from the group consisting of



wherein R represents an alkyl group, a nitro group, a phenyl group, an alkoxy group, a carboxyl group or a metal carboxylate group.

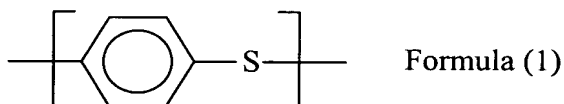
77. (New) A resin composition, comprising:

(a) from 70 to 95 wt% of a polyphenylene sulfide;

(b¹) from 5 to 30 wt% of a tetrafluoroethylene/perfluoro(alkylvinyl ether) copolymer or a tetrafluoroethylene/hexafluoropropylene copolymer; and

(c) from 10 to 250 parts by weight of at least one member selected from the group consisting of an organic reinforcing material, an inorganic reinforcing material and a filler; based on 100 parts by weight of a total amount of (a) and (b¹);

wherein said polyphenylene sulfide is a copolymer comprising a repeating unit represented by formula (1):



; and

less than 30 mol%, excluding 0 mol%, of a copolymer unit.

78. (New) A resin composition, comprising:

(a) from 70 to 95 wt% of a polyphenylene sulfide;

Def (c) noted
(b¹) from 5 to 30 wt% of a tetrafluoroethylene/perfluoro(alkylvinyl ether) copolymer or a tetrafluoroethylene/hexafluoropropylene copolymer; and

(c) from 10 to 250 parts by weight of at least one member selected from the group consisting of a thermosetting resin powder, ferrite, mica, silica, talc, alumina, kaolin, calcium sulfate, calcium carbonate, graphite, titanium oxide, zinc oxide, carbon black, glass fiber, whisker of potassium titanate, whisker of aluminum borate and polyamide fiber; based on 100 parts by weight of a total amount of (a) and (b¹).

BASIS FOR THE AMENDMENT

Claims 1, 2, 4, and 6-16 have been canceled.

New Claims 17-78 have been added.

Claims **17, 29, 41, 53, 65 and 76-78** are independent Claims.

New Claim 17 is supported by Claims 1, 11 and 12 as originally filed.

New Claims 18, 30 and 42 are supported by Claim 2 as originally filed.

New Claims 19, 31, 43, 54 and 66 are supported by Claim 4 as originally filed.

New Claims 20, 32, 44 and 67 are supported by Claim 7 as originally filed.

New Claims 21, 33, 45 and 68 are supported by Claim 8 as originally filed.

New Claims 22, 34, 46 and 69 are supported by Claim 9 as originally filed.

New Claims 23, 35, 47 and 70 are supported by Claim 10 as originally filed.

New Claims 24, 50, 62 and 71 are supported by Claim 14 as originally filed.

New Claims 25, 38, 63 and 72 are supported by Claim 15 as originally filed.

New Claims 26, 39, 51, 64 and 73 are supported by Claim 16 as originally filed.

New Claims 27, 37, 49, 61 and 74 are supported by Claim 13 as originally filed.

New Claims 28, 40, 52 and 75 are supported at page 10, line 21 to page 11, line 5 of the specification.

New Claim 29 is supported by Claims 1, 11 and 14 as originally filed.

New Claims 36, 48 and 60 are supported by Claim 12 as originally filed.

New Claim 41 is supported by Claims 1, 11 and 15 as originally filed.

New Claim 53 is supported by Claims 1 and 2 as originally filed and at page 10, line 21 to page 11, line 5 of the specification.

New Claim 59 is supported by Claim 11 as originally filed.

New Claim 65 is supported by Claims 6, 11 and 12 as originally filed.

New Claim 76 is supported by Claims 6, 11 and 14 as originally filed.

New Claim 77 is supported by Claims 6, 11 and 15 as originally filed.

New Claim 78 is supported by Claim 6 as originally filed and at page 10, line 21 to page 11, line 5 of the specification.

No new matter is believed to have been added by entry of this amendment. Entry and favorable reconsideration are respectfully requested.

Upon entry of this amendment Claims 17-78 will now be active in this application.

REQUEST FOR RECONSIDERATION

Applicants wish to thank Examiner Acquah for his helpful and courteous discussion with Applicants' Representative on January 14, 2003.

Applicants respectfully request reconsideration of the application in view of the following remarks.

Applicants have replaced Claims 1, 2, 4, and 6-16 by new Claims 17-78. **Claims 17, 29, 41, 53, 65 and 76-78 are independent Claims** which relate to resin compositions of different scope. **New Claim 17** includes the limitations of Claims 1, 11 and 12 as originally filed. **New Claim 29** includes the limitations of Claims 1, 11 and 14 as originally filed. **New Claim 41** includes the limitations of Claims 1, 11 and 15 as originally filed. **New Claim 53** includes the limitations of Claims 1 and 2 as originally filed. In addition component (c) is specified as set forth at page 10, line 21 to page 11, line 5 of the specification. **New Claim 65** includes the limitations of Claims 6, 11 and 12 as originally filed. **New Claim 76** includes the limitations of Claims 6, 11 and 14 as originally filed. **New Claim 77** includes the limitations of Claims 6, 11 and 15 as originally filed. **New Claim 78** includes the limitations of Claim 6 as originally filed. In addition component (c) is specified as set forth at page 10,

line 21 to page 11, line 5 of the specification.

Tanaka et al disclose a sliding member obtained by molding a resin composition comprising an aromatic polyamide fiber, a polytetrafluoro-ethylene, lead oxide and at least one heat resistant synthetic resin such as polyphenylene sulfide (abstract, col. 2, line 34). However, there is **no disclosure or suggestion of** a resin composition, wherein the **polyphenylene sulfide is a random copolymer or a block copolymer** as set forth in **Claims 17 and 65**, wherein the **polyphenylene sulfide is a copolymer comprising a copolymer unit as set forth in Claims 29 and 76**, wherein the **polyphenylene sulfide is a copolymer** comprising less than 30 mol%, excluding 0 mol%, of a copolymer unit as set forth in **Claims 41 and 77**, or a resin composition having (c) **more than 0 part** by weight and **not more than 250 parts** by weight of at least one member selected from the group consisting of a thermosetting resin powder, ferrite, mica, silica, talc, alumina, kaolin, calcium sulfate, calcium carbonate, graphite, titanium oxide, zinc oxide, carbon black, glass fiber, whisker of potassium titanate, whisker of aluminum borate and polyamide fiber, as set forth in **Claims 53 and 78**.

Therefore, the rejection of Claims 1, 2, 4 and 6-16 under 35 U.S.C. §102(b) over Tanaka et al is believed to be unsustainable as the present invention is neither anticipated nor obvious and withdrawal of this rejection is respectfully requested.